

SERIES SMI-175 ALUM WINDOW WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

TYPICAL ELEVATIONS

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D LARGE MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

INSTRUCTIONS: USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 FOR STOREFRONT MULLION AND SHEET 5 & 6 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEETS 4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

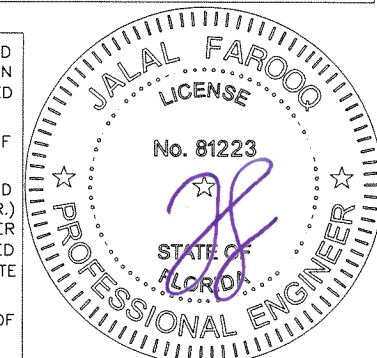
SINGLE 'O' PANEL:
 FRAME WIDTH = D.L.O. WIDTH + 5.00"
 FRAME HEIGHT = D.L.O. HEIGHT + 5.00"

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

WINDOW WALL SYSTEM WITH GLASS TYPES 'C' & 'D' COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 7/11/2023
 FL #19973

**LAMINATED GLASS
 LARGE MISSILE IMPACT**



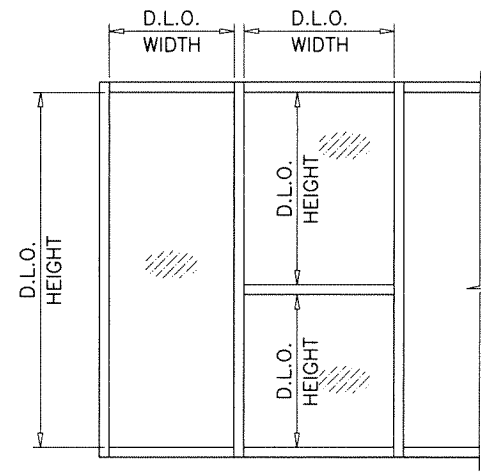
afc
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
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 TEL. (305) 264-8100
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 FBPE #3538
 COMP-ANL\22-07F-AAG

SERIES SMI-175 ALUM WINDOW WALL (L.M.I.)
Aldora Aluminum & Glass Products Inc.
 4250 Coral Ridge Drive, Suite 101
 Coral Springs, FL. 33065
 Tel. (954) 784-6900 Fax. (954) 784-6901

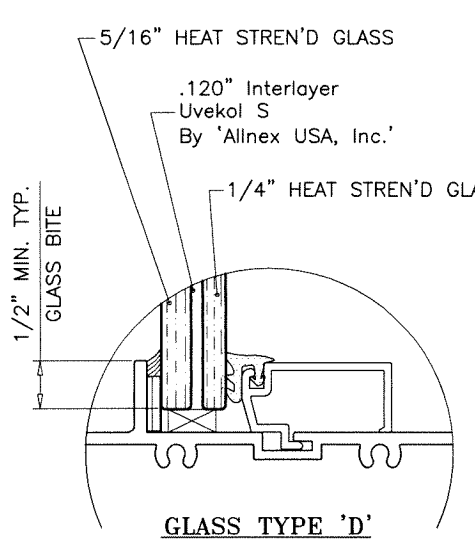
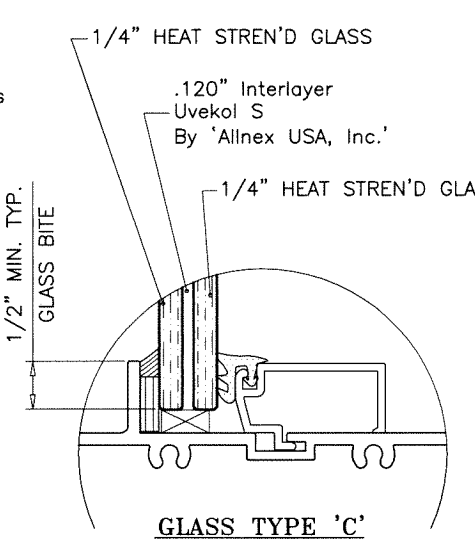
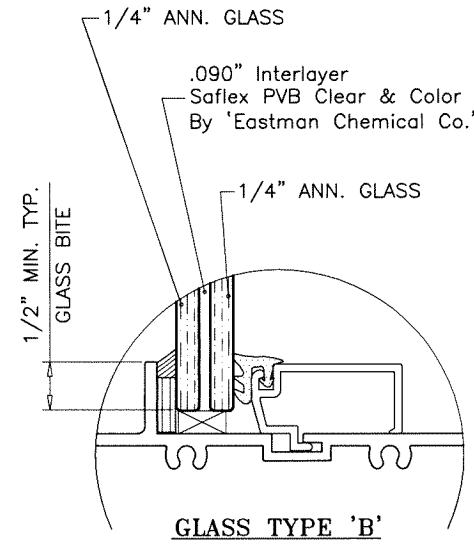
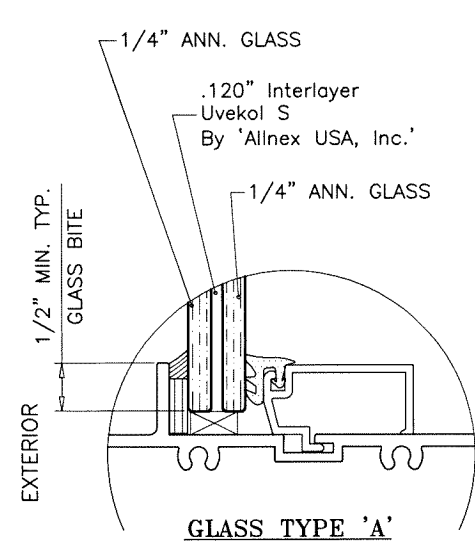
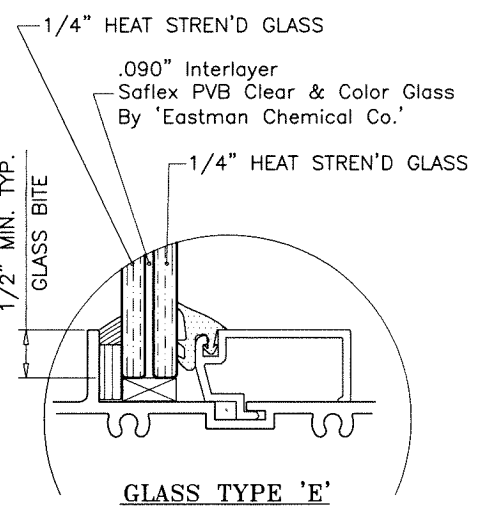
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date:	03-07-22			
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dr. by:	TARIQ			
chk. by:				
drawing no.	22-07F			
sheet	1 of 10			

GLASS LOAD CAPACITY - PSF						
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)
20"	74"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	63.0	120.0	100.0	90.0
44"		63.0	-	120.0	100.0	90.0
50"		63.0	-	120.0	100.0	90.0
56"		63.0	-	100.0	100.0	90.0
60"		63.0	-	100.0	100.0	-
66"	-	-	100.0	100.0	-	
20"	80"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	-	120.0	100.0	90.0
44"		63.0	-	120.0	100.0	90.0
50"		63.0	-	120.0	100.0	90.0
56"		63.0	-	100.0	100.0	-
60"		-	-	100.0	100.0	-
66"	-	-	100.0	100.0	-	
20"	86"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	-	120.0	100.0	90.0
44"		63.0	-	120.0	100.0	90.0
50"		63.0	-	100.0	100.0	-
56"		-	-	100.0	100.0	-
60"		-	-	100.0	100.0	-
66"	-	-	100.0	100.0	-	
20"	92"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	-	120.0	100.0	90.0
44"		63.0	-	100.0	100.0	90.0
50"		63.0	-	100.0	100.0	-
56"		-	-	100.0	100.0	-
60"		-	-	100.0	100.0	-
66"	-	-	100.0	100.0	-	

GLASS LOAD CAPACITY - PSF						
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)	EXT.(+)&INT.(-)
20"	98"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	-	120.0	100.0	90.0
38"		63.0	-	120.0	100.0	90.0
44"		63.0	-	100.0	100.0	-
50"		-	-	100.0	100.0	-
56"		-	-	100.0	100.0	-
60"		-	-	100.0	100.0	-
66"	-	-	100.0	100.0	-	
20"	104"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	-	120.0	100.0	90.0
38"		63.0	-	120.0	100.0	90.0
44"		63.0	-	100.0	100.0	-
50"		-	-	100.0	100.0	-
56"		-	-	100.0	100.0	-
60"		-	-	100.0	100.0	-
20"	110"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	-	120.0	100.0	90.0
38"		63.0	-	100.0	100.0	-
44"		-	-	100.0	100.0	-
50"		-	-	100.0	100.0	-
56"		-	-	100.0	100.0	-
60"		-	-	100.0	100.0	-
20"	116"	63.0	63.0	120.0	100.0	90.0
26"		63.0	-	120.0	100.0	90.0
32"		63.0	-	120.0	100.0	90.0
38"		63.0	-	100.0	100.0	-
44"		-	-	100.0	100.0	-
50"		-	-	100.0	100.0	-
56"		-	-	97.9	100.0	-
60"		-	-	120.0	-	-
63"	63"	-	-	120.0	-	-
60"	67"	-	-	120.0	-	-
57"	69"	-	-	120.0	-	-
54"	74"	-	-	120.0	-	-

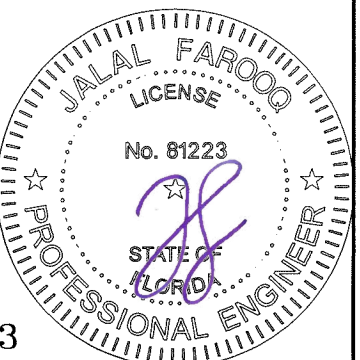


NOTE:
GLASS CAPACITIES ON THIS SHEET
ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS).



GLAZING OPTIONS

Sealed: 7/11/2023



FL #19973

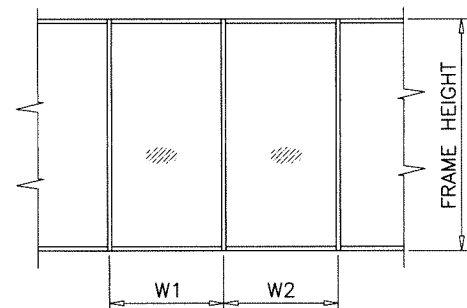
af c
AL-FAROOQ CORPORATION
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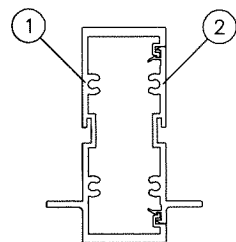
revisions:	no	date	description
date:	03-07-22	scale:	1/2" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	22-07F		
sheet	2 of 10		

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	72"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		100.0	100.0	100.0	120.0
66"		100.0	100.0	90.0	100.0
24"	78"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		100.0	100.0	90.0	100.0
66"		100.0	100.0	90.0	100.0
24"	84"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		96.0	96.0	90.0	100.0
66"		-	-	90.0	100.0
24"	90"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		95.1	95.1	100.0	120.0
54"		87.0	87.0	90.0	100.0
60"		-	-	90.0	100.0
66"		-	-	90.0	100.0
24"	96"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		91.8	91.8	100.0	120.0
48"		82.0	82.0	90.0	100.0
54"		74.7	74.7	90.0	100.0
60"		-	-	90.0	100.0
66"		-	-	90.0	100.0
24"	102"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		92.0	92.0	100.0	120.0
42"		80.2	80.2	100.0	120.0
48"		71.4	71.4	90.0	100.0
54"		-	-	90.0	100.0
60"		-	-	90.0	100.0
66"		-	-	90.0	100.0

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	108"	100.0	100.0	100.0	120.0
30"		91.2	91.2	100.0	120.0
36"		77.0	77.0	100.0	120.0
42"		67.1	67.1	100.0	120.0
48"		59.9	59.9	90.0	100.0
54"		-	-	90.0	100.0
60"		-	-	90.0	99.2
66"		-	-	90.0	92.5
24"	114"	95.7	95.7	100.0	120.0
30"		77.3	77.3	100.0	120.0
36"		65.2	65.2	100.0	120.0
42"		56.7	56.7	100.0	100.0
48"		-	-	90.0	100.0
54"		-	-	90.0	96.0
60"		-	-	88.0	88.0
66"		-	-	88.0	88.0
24"	120"	81.9	81.9	100.0	120.0
30"		66.1	66.1	100.0	120.0
36"		55.7	55.7	100.0	120.0
42"		48.4	48.4	90.0	100.0
48"		-	-	90.0	95.3
54"		-	-	85.9	85.9
60"		-	-	78.7	78.7
66"		-	-	78.7	78.7

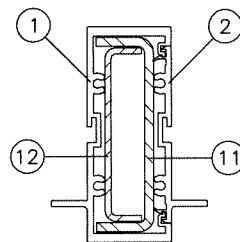


$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



MULLION
W/O REINFORCING

Ix IN ⁴	Sx IN ³
5.3965	2.3107

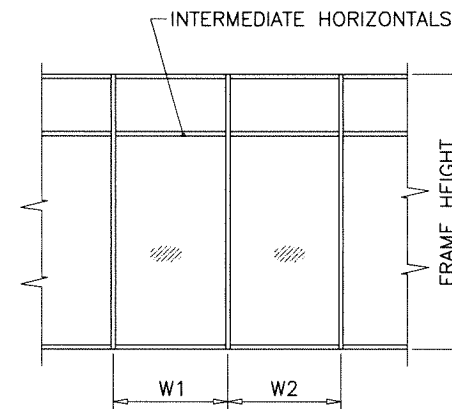


MULLION
W/ REINFORCING

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	5.3965	2.3107
TOTAL	3.2364	1.5933
Ix ALUM + Ix STL X 2.9	14.7821	

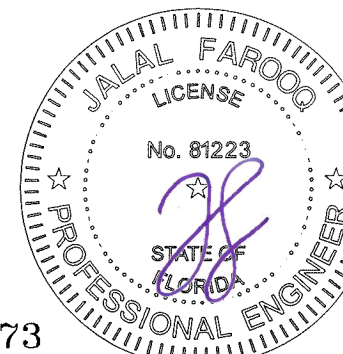
MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	72"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		100.0	100.0	100.0	120.0
66"		100.0	100.0	100.0	100.0
24"	78"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		93.2	93.2	90.0	100.0
66"		84.7	84.7	90.0	100.0
24"	84"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		99.7	99.7	100.0	120.0
54"		88.7	88.7	100.0	120.0
60"		79.8	79.8	90.0	100.0
66"		-	-	90.0	100.0
24"	90"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		98.6	98.6	100.0	120.0
48"		86.3	86.3	100.0	120.0
54"		76.7	76.7	90.0	100.0
60"		-	-	90.0	100.0
66"		-	-	90.0	100.0
24"	96"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		86.1	86.1	100.0	120.0
48"		75.3	75.3	90.0	100.0
54"		67.0	67.0	90.0	100.0
60"		-	-	90.0	100.0
66"		-	-	90.0	100.0
24"	102"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		87.7	87.7	100.0	120.0
42"		75.1	75.1	100.0	120.0
48"		65.7	65.7	90.0	100.0
54"		-	-	90.0	100.0
60"		-	-	90.0	100.0
66"		-	-	90.0	90.9

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	108"	100.0	100.0	100.0	120.0
30"		88.6	88.6	100.0	120.0
36"		73.8	73.8	100.0	120.0
42"		63.3	63.3	100.0	120.0
48"		55.4	55.4	90.0	100.0
54"		-	-	90.0	99.1
60"		-	-	89.2	89.2
66"		-	-	81.1	81.1
24"	114"	94.2	94.2	100.0	120.0
30"		75.3	75.3	100.0	120.0
36"		62.8	62.8	100.0	120.0
42"		53.8	53.8	90.0	100.0
48"		-	-	90.0	100.0
54"		-	-	89.0	89.0
60"		-	-	80.1	80.1
66"		-	-	80.1	80.1
24"	120"	80.7	80.7	100.0	120.0
30"		64.6	64.6	100.0	120.0
36"		53.8	53.8	100.0	120.0
42"		46.1	46.1	90.0	100.0
48"		-	-	90.0	90.3
54"		-	-	80.3	80.3
60"		-	-	72.3	72.3
66"		-	-	72.3	72.3



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

Sealed: 7/11/2023



FL #19973

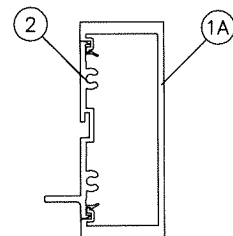
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100
 WWW.AFCENG.COM
 FBPE #3598
 COMP-ANL\22-07F-AAG

SERIES SMI-175 ALUM WINDOW WALL (L.M.I.)
Aldora Aluminum & Glass Products Inc.
 4250 Coral Ridge Drive, Suite 101
 Coral Springs, FL 33065
 Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:	no	date	by	description
date:	03-07-22			
scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	22-07F			
sheet	3 of 10			

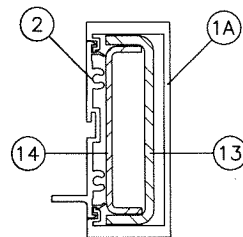
DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		W/O REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
30"	81-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	85-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	91-3/4"	90.0
36"		90.0
42"		90.0
30"	96-3/4"	90.0
36"		90.0
42"		90.0
30"	97-3/4"	90.0
36"		90.0
42"		90.0

DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		WITH REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
24"	80"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"	100.0	
24"	84"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"	100.0	
24"	90"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
24"	96"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
48"		100.0
24"	102"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
48"		100.0
24"	108"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
48"		100.0
24"	114"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
48"		100.0
24"	120"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
48"		99.3



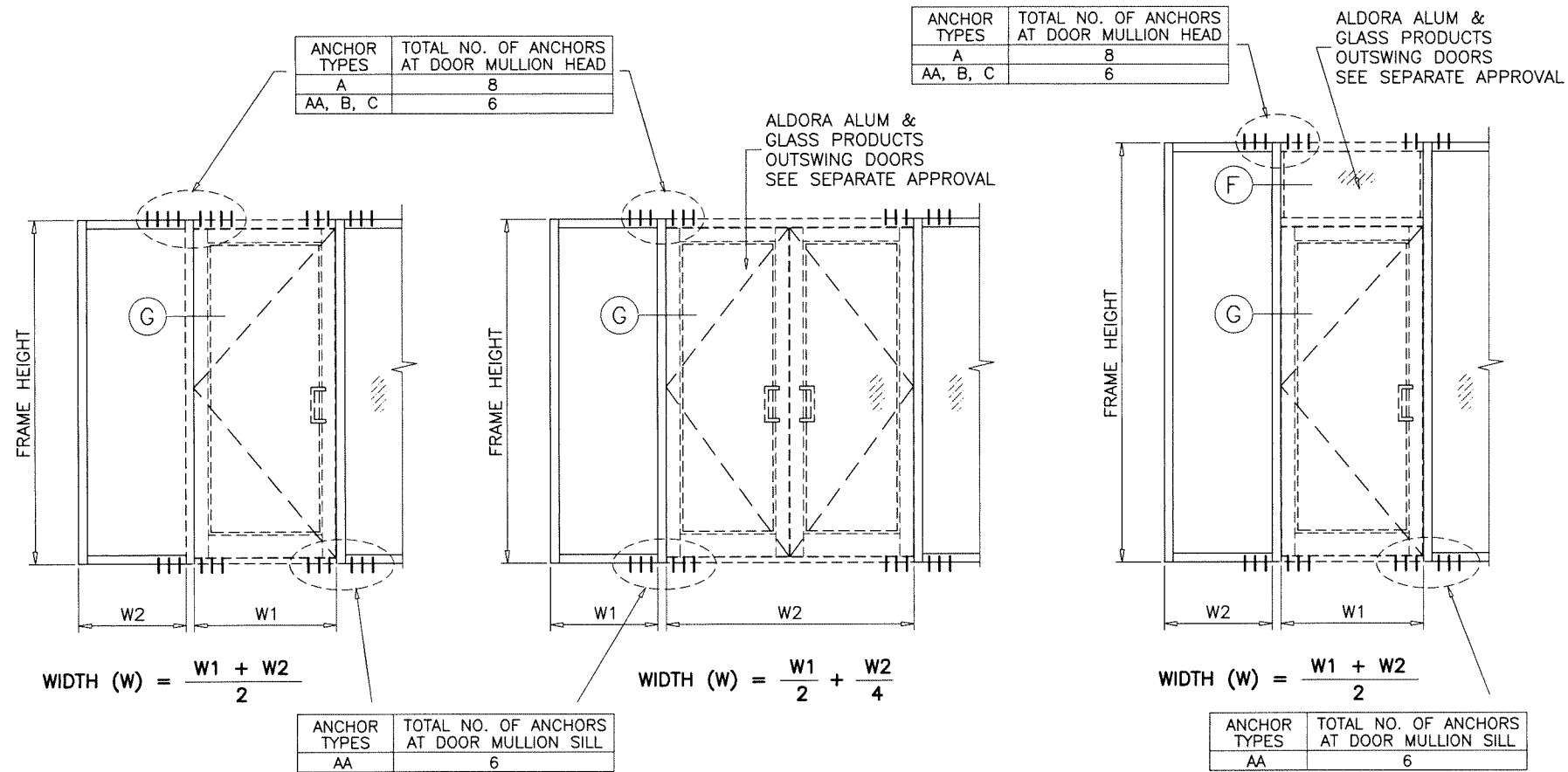
DOOR MULLION
WITHOUT REINFORCING

Ix IN ⁴	Sx IN ³
5.8433	2.5967

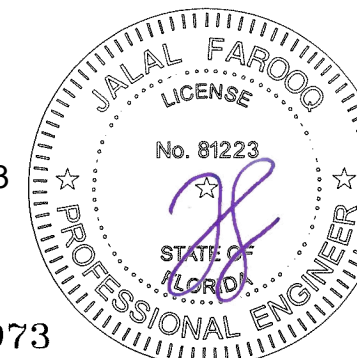


DOOR MULLION
WITH REINFORCING

	Ix IN ⁴	Sx IN ³
ALUMINUM	5.8433	2.5967
STEEL	2.7384	1.3908
TOTAL Ix ALUM + Ix STL X 2.9	13.7847	



Sealed: 7/11/2023



FL #19973

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 FBPE #3538
 COMP-ANL 22-07F-AAG

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revisions:	no	date	by	description

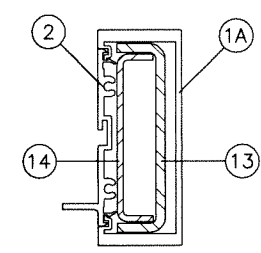
date: 03-07-22
 scale: -
 dr. by: TARIQ
 chk. by:
 drawing no.
22-07F
 sheet 5 of 10

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
108	80	60	30	100.0
			33	100.0
			39	100.0
			42	100.0
		72	30	100.0
			33	100.0
			39	100.0
			42	97.5
		84	30	98.8
			33	96.0
			39	90.9
			42	88.6
96	30	89.7		
	33	87.4		
	39	83.2		
	42	81.2		
114	80	60	30	100.0
			33	100.0
			39	98.2
			42	95.2
		72	30	96.2
			33	93.3
			39	87.9
			42	85.5
		84	30	86.3
			33	83.9
			39	79.6
			42	77.6
96	30	78.2		
	33	76.3		
	39	72.7		
120	80	60	30	96.3
			33	93.0
			39	87.2
			42	84.6
		72	30	85.1
			33	82.6
			39	78.0
			42	75.8
		84	30	76.3
			33	74.3
			39	70.5
			42	68.8
96	30	69.1		
	33	67.5		

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
108	84	60	30	100.0
			33	100.0
			39	100.0
			42	100.0
		72	30	100.0
			33	100.0
			39	100.0
			42	100.0
		84	30	100.0
			33	99.0
			39	93.6
			42	91.1
96	30	92.6		
	33	90.2		
	39	85.7		
	42	83.6		
114	84	60	30	100.0
			33	100.0
			39	100.0
			42	97.0
		72	30	98.4
			33	95.4
			39	89.8
			42	87.3
		84	30	88.4
			33	85.9
			39	81.4
			42	79.3
96	30	80.2		
	33	78.2		
	39	74.4		
120	84	60	30	97.9
			33	94.6
			39	88.6
			42	85.8
		72	30	86.7
			33	84.1
			39	79.3
			42	77.1
		84	30	77.8
			33	75.7
			39	71.8
			42	69.9
96	30	70.5		
	33	68.8		

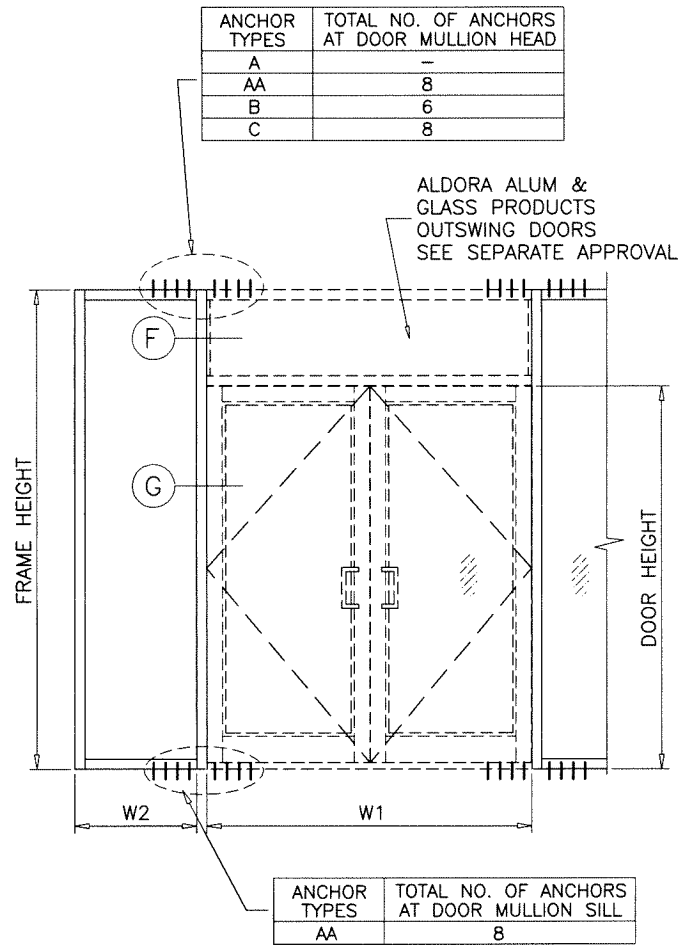
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
114	96	60	30	100.0
			33	100.0
			39	100.0
			42	100.0
		72	30	100.0
			33	100.0
			39	98.2
			42	95.2
		84	30	98.0
			33	95.0
			39	89.5
			42	86.9
96	30	89.3		
	33	86.8		
	39	82.2		
120	96	60	30	100.0
			33	100.0
			39	94.6
			42	91.5
		72	30	93.7
			33	90.6
			39	85.1
			42	82.6
		84	30	84.4
			33	81.9
			39	77.3
			42	75.2
96	30	76.7		
	33	74.7		

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
120	108	60	30	100.0
			33	100.0
			39	100.0
			42	100.0
		72	30	100.0
			33	100.0
			39	94.9
			42	91.7
		84	30	95.8
			33	92.6
			39	86.8
			42	84.2
96	30	87.6		
	33	84.9		



DOOR MULLION WITH REINFORCING

	Ix IN^4	Sx IN^3
ALUMINUM	5.8433	2.5967
STEEL	2.7384	1.3908
TOTAL Ix ALUM + Ix STL X 2.9	13.7847	



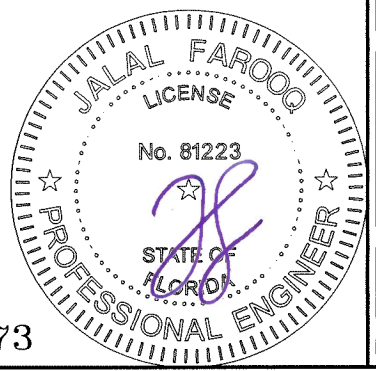
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 WWW.AFCENG.COM
 FBPE #3538 COMP-ANL\22-07F-AAG

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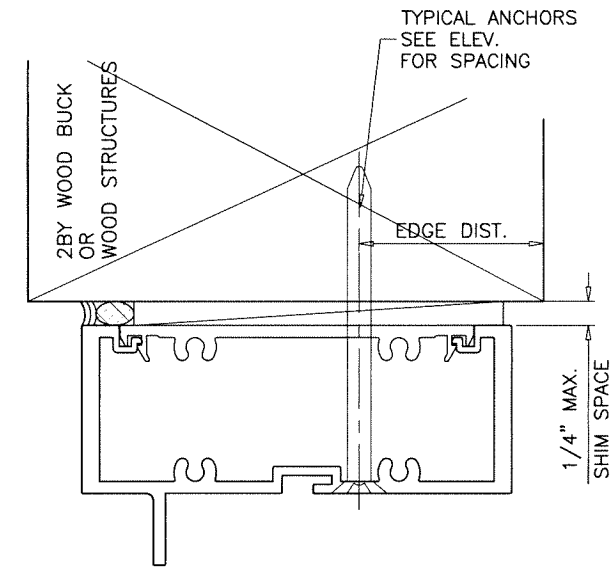
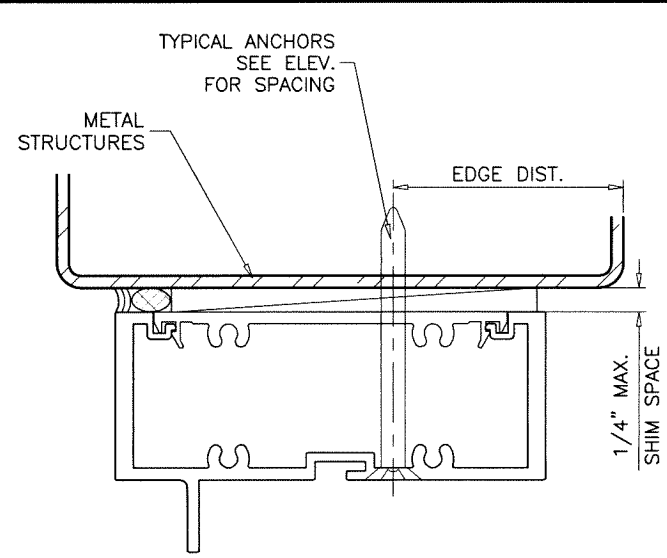
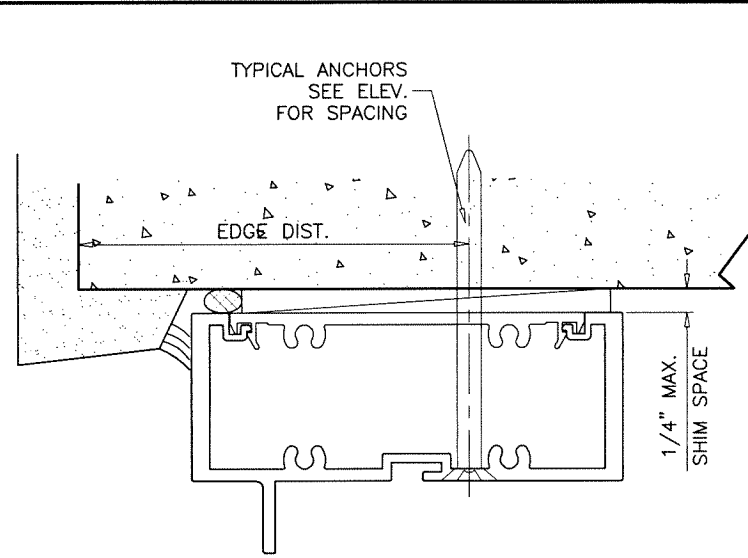
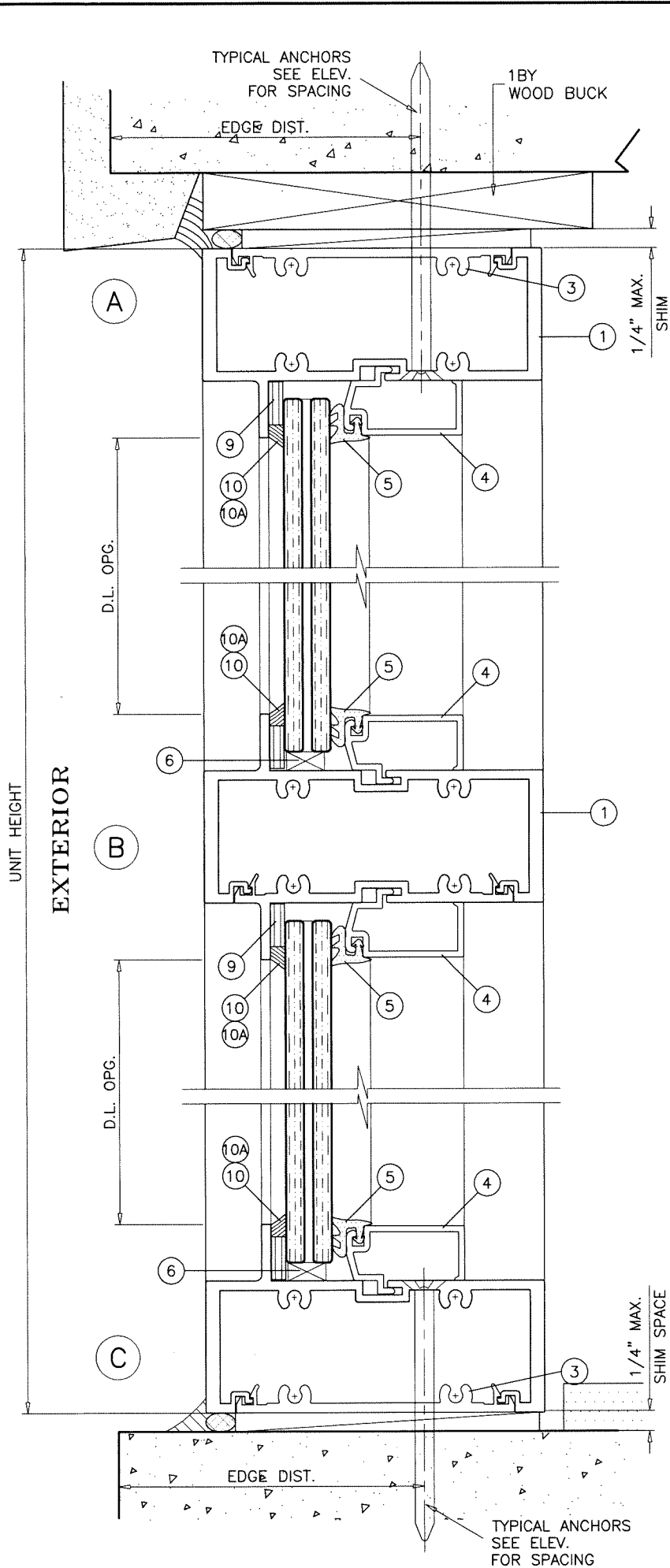
revisions:	no	date	by	description

date: 03-07-22
 scale: -
 dr. by: TARIQ
 chk. by:
 drawing no. 22-07F
 sheet 6 of 10

Sealed: 7/11/2023



FL #19973



WOOD BUCKS AND METAL STRUCTURE NOT BY 'ALDORA ALUMINUM & GLASS PRODUCTS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - **1/4" DIA. ULTRACON+ BY 'DEWALT'** ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'AA' - **1/4" DIA. ULTRACON+ BY 'DEWALT'** ($F_u=164$ KSI, $F_y=148$ KSI)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B' - **#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

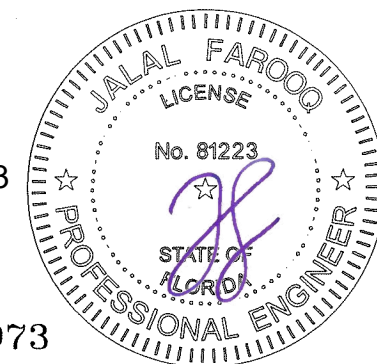
TYPE 'C' - **5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
 INTO WOOD STRUCTURES
 1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN. (FOR 1/4" ANCHORS)
 INTO WOOD STRUCTURE = 1-1/4" MIN. (FOR 5/16" ANCHORS)
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 GROUT FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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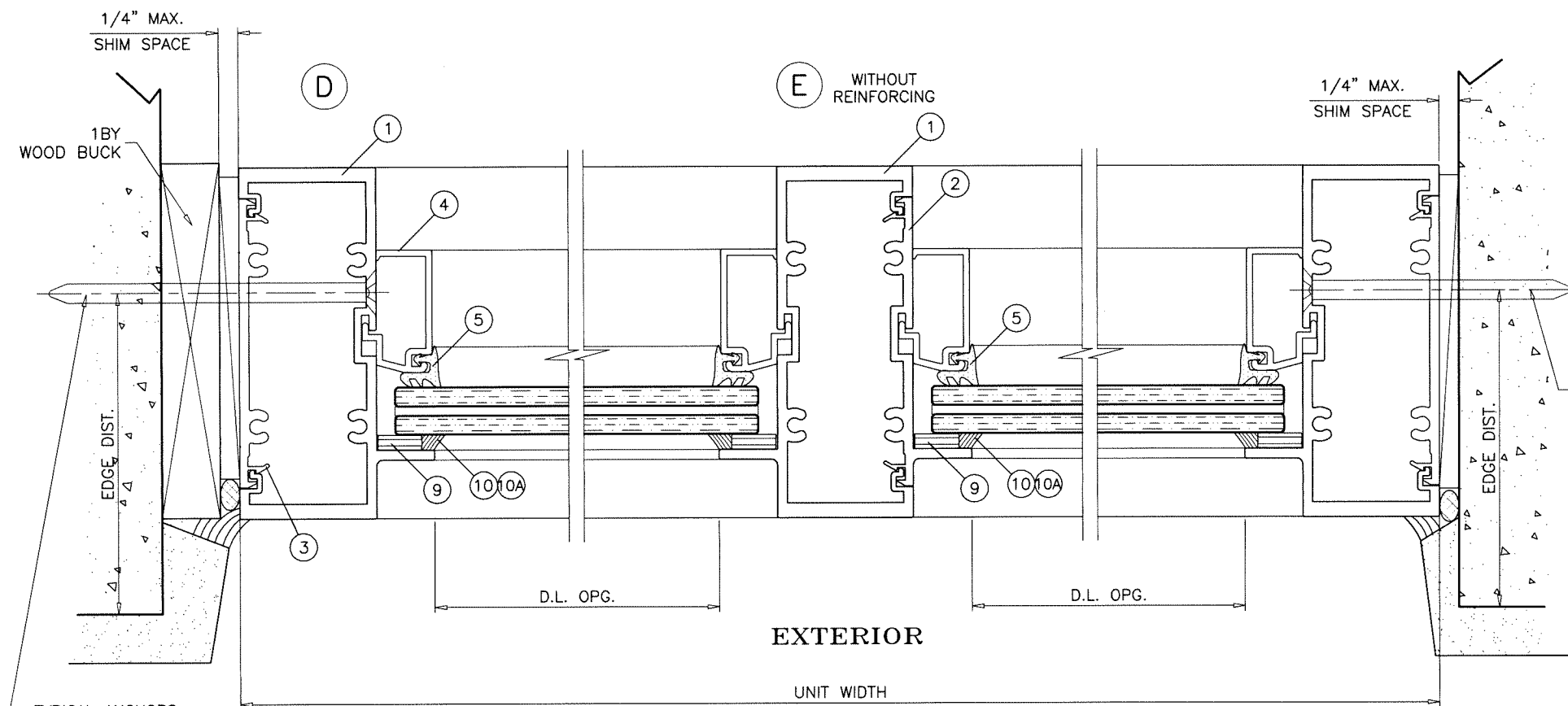
FL #19973

a f c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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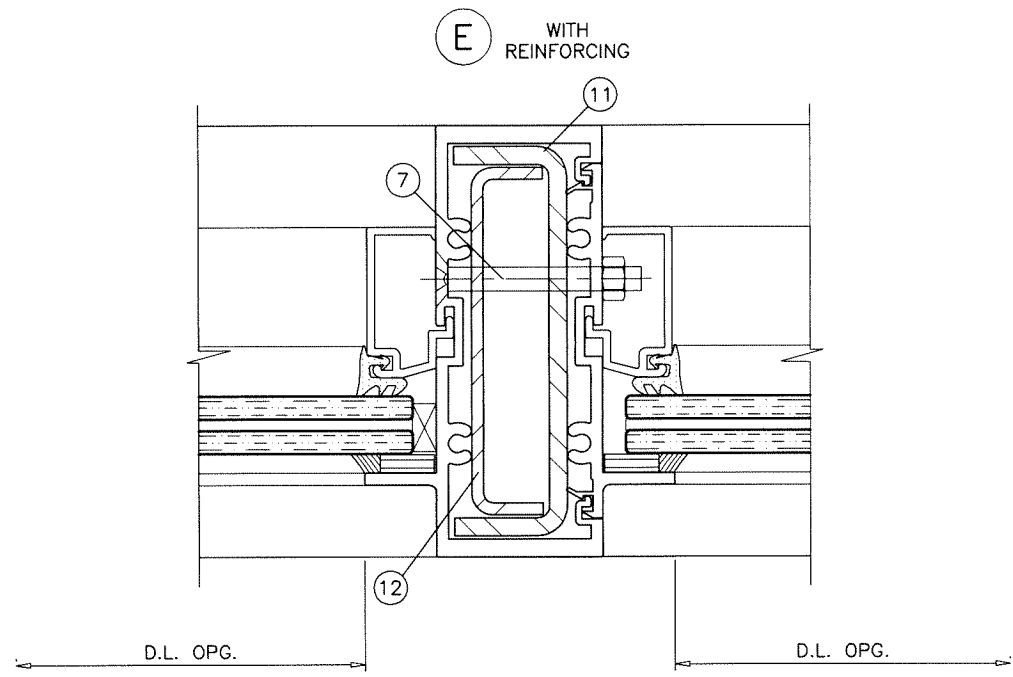
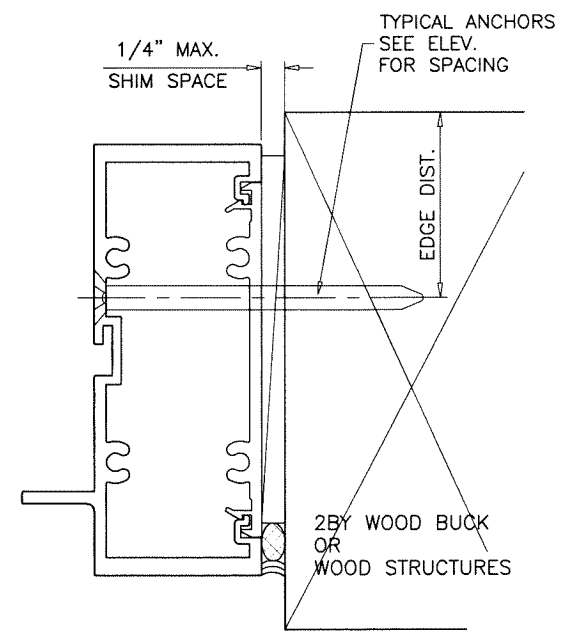
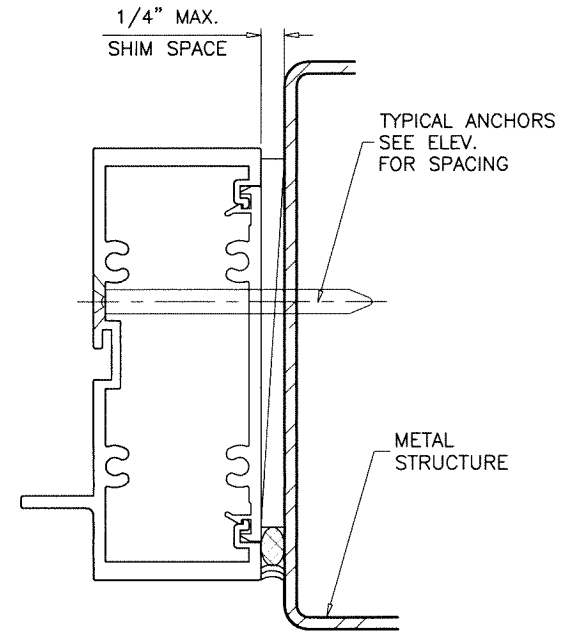
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no	date by description

date: 03-07-22
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no. **22-07F**
sheet 7 of 10



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



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Revisions:

no	date	by	description

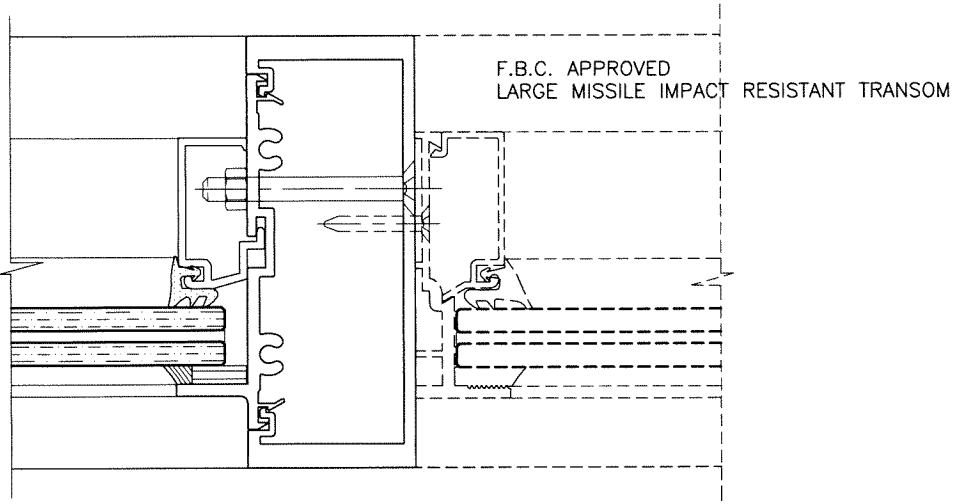
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drawing no. 22-07F
sheet 8 of 10

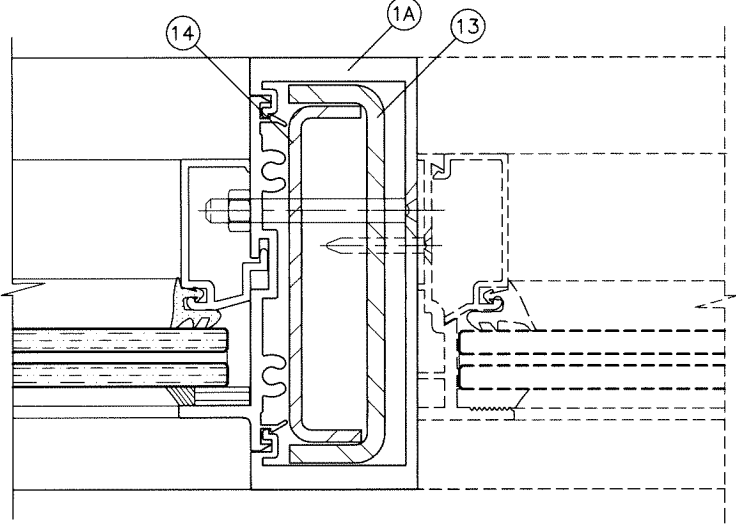
SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.

LOWER VALUES FROM DOORS APPROVAL OR STOREFRONT SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

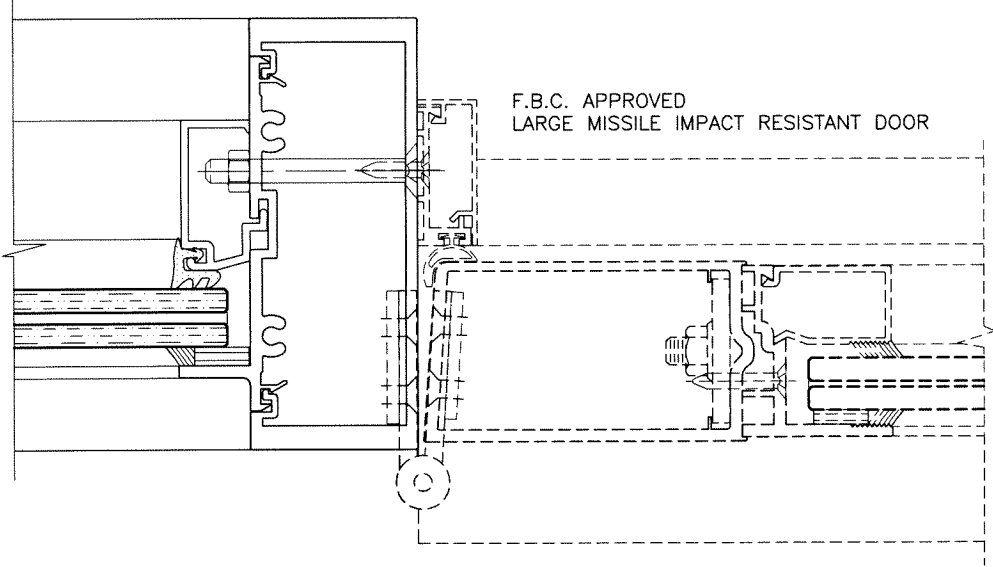
F WITHOUT REINFORCING



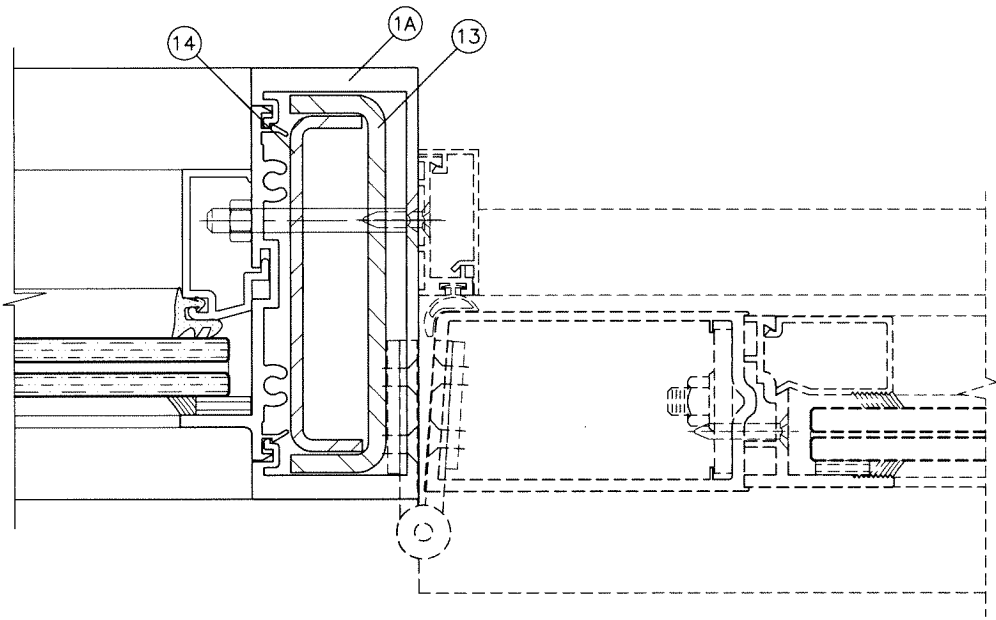
F WITH REINFORCING



G WITHOUT REINFORCING



G WITH REINFORCING



afc
AL-FAROOQ CORPORATION
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revisions:	
no	date by description

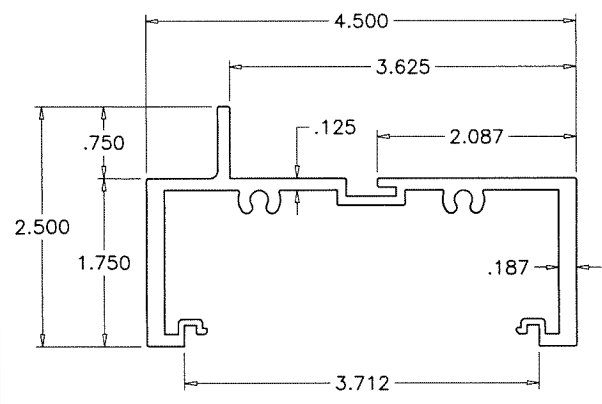
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 chk. by:

drawing no.
22-07F
 sheet 9 of 10

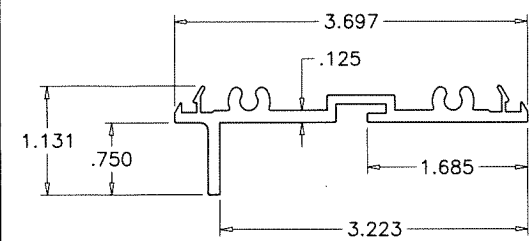
Sealed: 7/11/2023



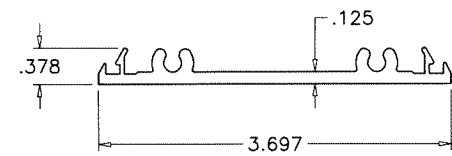
FL #19973



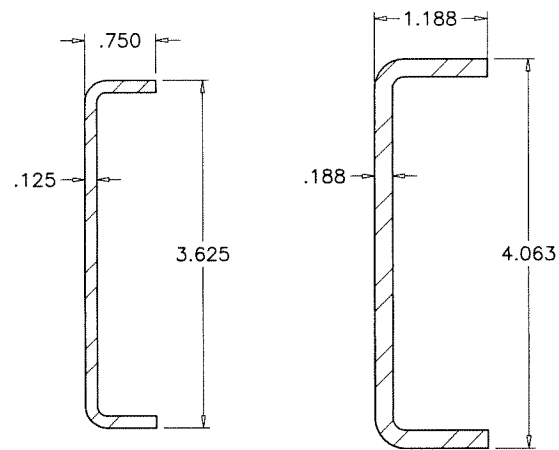
① FRAME HEAD/SILL/JAMB/MULLION



② INTERMEDIATE SNAP-IN

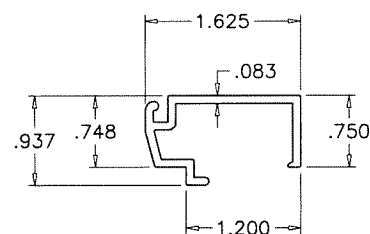


③ POCKET FILLER

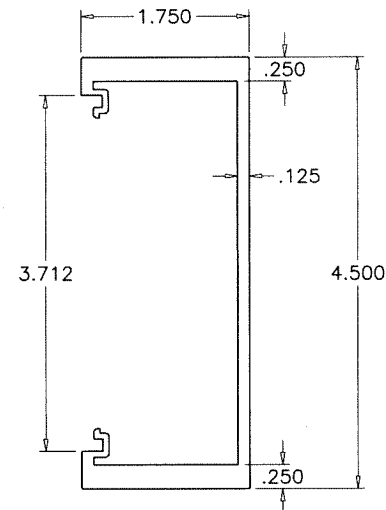


⑫ REINFORCING CHANNELS
STOREFRONT MULLION

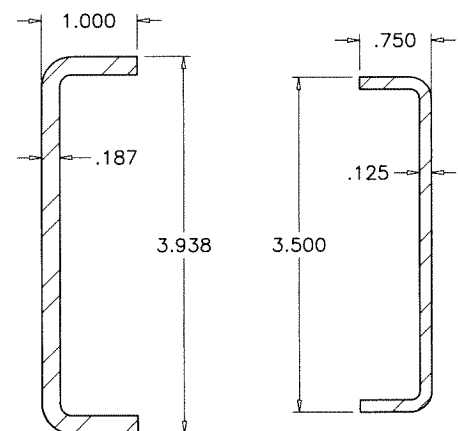
⑪



④ GLAZING STOP

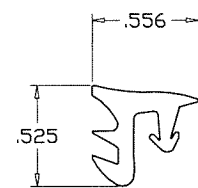


①A DOOR MULLION



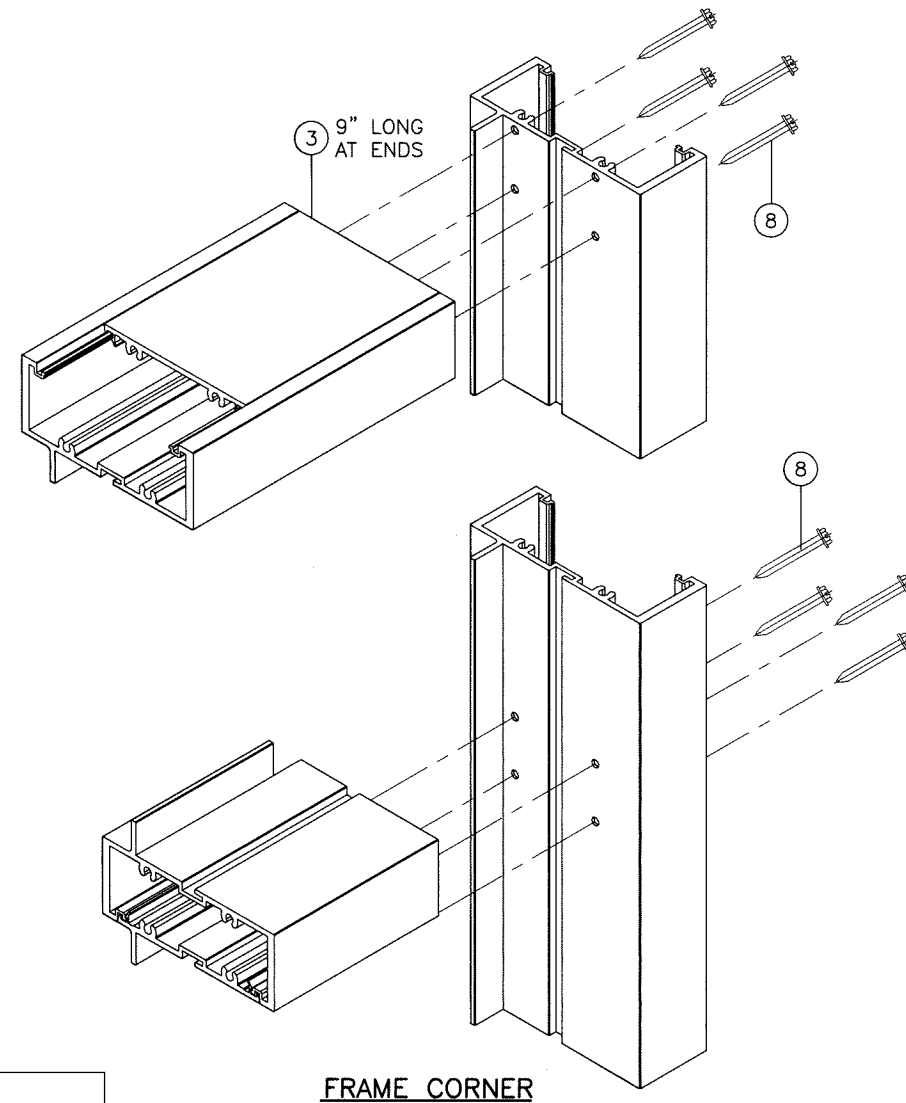
⑬ REINFORCING CHANNELS
DOOR MULLION

⑭



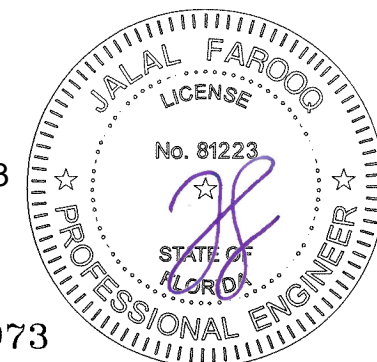
⑤ WEDGE-IN GASKET
SCALE 1:1

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SMI-001	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	SMITH MOUNTAIN
1A	SMI-005	AS REQD.	DOOR MULLION	6063-T6	SMITH MOUNTAIN
2	SMI-003	AS REQD.	INTERMEDIATE SNAP-IN	6063-T6	SMITH MOUNTAIN
3	SMI-004	AS REQD.	FLAT FILLER, 4" LONG AT ANCHOR LOCATIONS	6063-T6	SMITH MOUNTAIN
4	SMI-002	AS REQD.	GLAZING STOP	6063-T5	SMITH MOUNTAIN
5	SMI-G01	AS REQD.	GLAZING GASKET	EPDM 70 ±5	GLAZING RUBBER PRODUCTS
6	SMI-G03	AS REQD.	SETTING BLOCK (1/4" X 1/2" X 2" LONG)	EPDM 70 ±5	FRANK LOWE
7	1/4-20 X 2-1/4"	AS REQD.	MULLION SCREWS WITH NUT & WASHER	-	AT 9" FROM ENDS & 24" O.C.
8	#12 X 1-1/2"	2 PER CORNER	FRAME ASSEMBLY SCREWS	-	HEX H SELF DRILLING
9	SMI-G02	-	ADHESIVE FOAM TAPE (1/4" X 1/2")	-	FRANK LOWE/BUTNICK
10	995	-	GLAZING COMPOUND	-	DOW CORNING
10A	895/896	-	GLAZING COMPOUND	-	PECORA
11	-	-	REINFORCING CHANNEL (STOREFRONT MULLION)	STEEL	1-3/16" X 4-1/16" X 1-3/16" X 3/16" THK. (ASTM A36, Fy 36 KSI)
12	-	-	REINFORCING CHANNEL (STOREFRONT MULLION)	STEEL	3/4" X 3-5/8" X 3/4" X 1/8" THK. (ASTM A36, Fy 36 KSI)
13	-	-	REINFORCING CHANNEL (DOOR MULLION)	STEEL	1" X 3-15/16" X 1" X 3/16" THK. (ASTM A36, Fy 36 KSI)
14	-	-	REINFORCING CHANNEL (DOOR MULLION)	STEEL	3/4" X 3-1/2" X 3/4" X 1/8" THK. (ASTM A36, Fy 36 KSI)



FRAME CORNER

Sealed: 7/11/2023



FL #19973

SERIES SMI-175 ALUM WINDOW WALL (L.M.I.)

Aldora Aluminum & Glass Products Inc.

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revisions:
no. date by description

date: 03-07-22
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
22-07F

sheet 10 of 10

af c
AL-FAROOQ CORPORATION
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